

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/561,912-Conf. #1376	
				Filing Date	March 23, 2007	
				First Named Inventor	Graham Eastham	
				Art Unit	1621	
Examiner Name	S. A. Witherspoon					
Attorney Docket Number	31229-226445					
Sheet	1	of	7			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-4,377,708	03-22-1983	Morris	
	AB*	US-4,500,727	02-19-1985	Kitamura et al.	
	AC*	US-5,246,558	09-21-1993	Chevigne et al.	
	AD*	US-20050090694	04-28-2005	Drent et al.	
	AE*	US-20020045748	04-18-2002	Drent et al.	
	AF*	US-20040162440	08-19-2004	Bunel et al.	
	AG*	US-5,563,308	10-08-1996	Spindler et al.	
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	AJ*	US-6,015,919	01-18-2000	Pugin	
	AK*	US-6,169,192	01-02-2001	Pugin et al.	
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	AP*	US-6,521,769	02-18-2003	Zhang	
	AQ*	US-6,307,065	10-23-2001	Tjaden et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	WO-96/19434	06-27-1996	Imperial Chemical Industries PLC		
	BB	WO-01/10551	02-15-2001	INEOS Acrylics UK LTD.		
	BC	WO-01/72697	10-04-2001	Shell Internationale Research		
	BD	WO-03/040159	05-15-2003	Shell Internationale Research		
	BE	WO-98/45040	10-15-1998	DSM N.V.		
	BF	EP-0235864	09-09-1987	Shell Int Research		
	BG	EP-0227160	07-01-1987	Shell Int Research		
	BH	EP-0106379	04-25-1984	Shell Int Research		
	BI	EP-0055875	07-14-1982	Shell Int Research		
	BJ	EP-0489472	06-10-1992	Shell Int Research		
	BK	EP-0274795	07-20-1988	Shell Int Research		
	BL	EP-0499329	08-19-1992	Shell Int Research		

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	BM	EP-0386833		09-12-1990	Shell Int Research		
	BN	EP-0441447		08-14-1991	Shell Int Research		
	BO	EP-0282142		09-14-1988	Shell Int Research		
	BP	EP-0495548		07-22-1992	Shell Int Research		
	BQ	EP-0144118		06-12-1985	Standard Oil Co Ohio		
	BR	WO-0168583		09-20-2001	Shell Int Research		
	BS	WO-9842717		10-01-1998	Shell Int Research		
	BT	WO-0170659		09-27-2001	Kvaerner Process Tech Ltd et al.		
	BU	WO-0212161		02-14-2002	Kvaerner Process Tech Ltd et al.		
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	BW	WO-2004/014834-A1		02-19-2004	Lucite Int Uk Ltd et al.		
	BX	WO-03/070370-A1		08-28-2003	Shell Int Research et al.		
	BY	WO-2004/014552-A1		02-19-2004	Lucite Int Uk Ltd et al.		
	BZ	WO-2005/003070-A1		01-13-2005	Lucite Int Uk Ltd et al.		
	BA1	WO-2004/024322-A2		03-25-2004	Lucite Int Uk Ltd et al.		
	BB1	WO-99/47528-A1		09-23-1999	Ici Plc et al.		
	BC1	WO-2005/079981-A1		09-01-2005	Lucite Int Uk Ltd et al.		
	BD1	WO-98/41495		09-24-1998	IMPERIAL CHEMICAL INDUSTRIES PLC		

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	BE1	WO-05/082830		09-09-2005	Shell Internationale Research		
	BF1	JP-08134218-A		05-28-1996	Agency Ind Science Techn		
	BG1	EP-0577205-A2		01-05-1994	Shell Int Research		
	BH1	EP-0728733-A1		08-28-1996	Dsm Nv et al.		
	BI1	EP-0305089-A1		03-01-1989	British Petroleum Co Plc		
	BJ1	WO-9708124-A1		03-06-1997	Du Pont et al.		
	BK1	EP-0495547-A2		07-22-1992	Shell Int Research		
	BL1	EP-0683764-A1		11-29-1995	Shell Int Research		
	BM1	WO-01/85662-A2		11-15-2001	Basf Ag et al.		
	BN1	WO-06/62467-A1		06-15-2006	Glow Ab et al.		

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NON PATENT LITERATURE DOCUMENTS			
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	CA	"Highly active [Pd(AcO) ₂ (dppp)] catalyst for the CO-C ₂ H ₄ copolymerization in H ₂ O-CH ₃ COOH solvent [dppp = 1,3-bis (diphenylphosphino)propane]" Andrea VAVASORI et al., Journal of Molecular Cat. A. Chem., vol. 204-205, 2003, pp 295-303	
	CB	"Hydroesterification of styrene using an in situ formed Pd(OTs) ₂ (PPh ₃) ₂ complex catalyst", A. Seayad et al., Journal of Molecular Cat. A. Chem., vol. 151, 2000, pp 47-59	
	CC	"Carbon monoxide-ethylene copolymerization catalyzed by a Pd(AcO) ₂ /dpppTsOH ¹ system: the promoting effect of water and of the acid", Journal of Molecular Cat. A. Chem., vol. 110, 1996, pp 13-23	
	CD	Kirk Othmer Encyclopaedia of Chemical Terminology, vol. 9, 4th Ed., p. 783, Hydrolysis of Organic Esters, pp. 783-85 and 87, John Wiley & Sons, January 1994.	
	CE	MASTERS, Christopher, "Homogeneous Transition Metal Catalysis," p. 4-21, Chapman and Hall, February, 1981.	
	CF	Lide et al., Handbook of Chem and Phys., 76th Ed., CRC Press, 1995, ps. 8-141 6-155 to 6-177; 15-16 to 15-25	
	CG	CLEGG, W. ET AL: "Highly active and selective catalysts for the production of methyl propanoate via the methoxycarbonylation of ethene" CHEM. COMMUN., 1999, pages 1877-1878	
	CH	JUIAN G. KNIGHT ET AL: "Remarkable Differences in Catalyst Activity and Selectivity fo rthe production of Methyl Propanoate versus CO-Ethylene Copolymer by a Series of palladium Complexes of Related C4-Bridged Diphosphines" Organometallics 2000, 19 4957-4967	
	CI	ADAM J. RUCKLIDGE ET AL.: "Methoxycarbonylation f vinyl acetate catalysed by palladium complexes of bis)ditertiarybutylphosphinomethyl) benzene and related ligands" CHEM. COMMUN., 2005, pages 1176-1178	
	CJ	Brunkan et al. "Effect of chiral cavities associated with molecularly imprinted platinum centers on the selectivity of ligand-exchange reactions at platinum", Journal of American Chemical Society, no. 22, pages 6217-6225, (2000).	
	CK	Brunkan et al. "Unorthodox C,O binding mode of Me2BINOL in Pt(II) complexes", Journal of American Chemical Society, no. 120, pages 11002-11003, (1998).	
	CL	Andrews et al. "Regioselective complexation of unprotected carbohydrates by Platinum(II); Synthesis, structure, complexation equilibria, and hydrogen-bonding in carbonate-derived bis(phosphine)platinum(II) diolate and alditolate complexes", Journal of American Chemical Society, no. 116, pages 5730-5740, (1994).	
	CM	Hartwig, et al. "Structure and reactions of oxametallacyclobutanes and oxametallacyclobutenes of ruthenium", Organometallics, vol. 10, no. 9, pages 3344-3362 (1991)	

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	CN	Konno et al. "Preparation and spectroscopic characteristics of geometrical isomers of bis[1,2-bis(dimethylphosphino)ethane]cobalt(III) complexes with thiolate ligands", The Chemical Society of Japan, no. 62, pages 3475-3478, (1989).		
	CO	Cecconi et al. "Palladium complexes with the tripodal phosphine tris(2-diphenylphosphinoethyl)amine. Synthesis and structure of trigonal, tetrahedral, trigonal bipyramidal, and square planar complexes", J. Chem. Soc. Dalton Trans., issue 1, pages xvii - xx. (1989).		
	CP	Miskowski et al. "Preparation and spectroscopic properties of Cobalt(III) complexes containing phosphine ligands. The electronic structural description of side-bonded dioxygen", Journal of American Chemical Society, vol. 98, no. 9, pages 2477-2483, (1976).		
	CQ	Hayward et al. "Some reactions of peroxobis (triphenylphosphine)platinum(II) and analogs with carbon dioxide, carbon disulfide, and other unsaturated molecules", Journal of American Chemical Society, vol. 92, issue 20, pages 5873-5878, (1970).		
	CR	Osman, Serindag "Synthesis of some platinum(II) diphosphine complexes of the type [PtX ₂ (P-P)] (X ₂ = CO ₃ ; X = CH ₃ COO, CF ₃ COO, NCO)", Synth. React. Inorg. Met.-Org. Chem., vol. 27, no. 1, pages 69-76, (1997).		
	CS	Andrews et al. "Syntheses, spectra and structures of (diphosphine)platinum(II) carbonate complexes" Inorganic Chemistry, no. 35, pages 5478-5483, (1996).		
	CT	Latif et al. "Square planar platinum(II) complexes, crystal structures of <i>cis</i> -bis(triphenylphosphine) hydro(triphenylstannyl) platinum(II) and <i>cis</i> -bis(triphenylphosphine) hydro(triphenylsilyl) platinum(II)", Journal of Organometallic Chemistry, no. 474, pages 217-221, (1994).		
	CU	Becker et al. "Synthesis and characterization of chiral diphosphine platinum(II) VANOL and VAPOL complexes", Organometallics, no. 22, pages 3245-3249, (2003).		
	CV	Becker et al. "Imprinting chiral information into rigidified dendrimers", Organometallics, no. 22, pages 4984-4998, (2003).		
	CW	Peng et al. "Chiral rodlike platinum complexes, double helical chains and potential asymmetric hydrogenation ligand based on "linear" building blocks: 1,8,9,16-tetrahydroxytetraphenylene and 1,8,9,16-tetrakis(diphenylphosphino)tetraphenylene" Journal of American Chemical Society, no. 127, pages 9603-9611, (2005).		
	CX	Wen et al. "Synthesis, resolution, and applications of 1,16-dihydroxytetraphenylene as a novel building block in molecular recognition and assembly", Journal of Organic Chemistry, no. 68, pages 8918-8931, (2003).		
	CY	Mikami et al. "Molecular design of DABNTf as a highly efficient resolving reagent for racemic Pd complex with tropos biphenylphosphine (BIPHEP) ligand: circular dichroism (CD) spectra of enantiopure BIPHEP-Pd complex", Chirality, no. 15, pages 105-107, (2003).		

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	CZ	Tudor et al., "Diastereoisomer interconversion in chiral BiphepPtX ₂ complexes", Organometallics, no. 19, pages 4376-4384, (2000).		
	CA1	Bellabarba et al., "Synthesis, X-ray characterization and reactions of a trigonal planar palladium(II) carbonyl complex", Chemical Communications, no. 15, pages 1916-1917, (2003).		
	CB1	Clegg et al., "Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethane to methylpropanoate", Journal of the Chemical Society, Dalton Transactions, no. 17, pages 3300-3308 (2002).		
	CC1	Clegg et al., "Characterisation and dynamics of [Pd(L-L)H(solvent)] ⁺ , [Pd(L-L)(CH ₂ CH ₃) ⁺ and [Pd(L-L)(C(O)Et)(THF)] ⁺ (L-L = 1,2-(CH ₂ PBut ₂) ₂ C ₆ H ₄): key intermediates in the catalytic methoxycarbonylation of ethane to methylpropanoate", Organometallics, vol. 21, no. 9, pages 1832-1840 (2002).		
	CD1	Edelbach et al., "Catalytic hydrogenolysis of biphenylene with platinum, palladium, and nickelphosphine complexes", Organometallics, vol. 17, no. 22, pages 4784-4794 (1998).		
	CE1	Kim et al., "Synthesis and theoretical study of palladium (II) complexes with aminophosphines as 7-membered chelate rings", Bulletin of the Korean Chemical Society, vol. 18, no. 11, pages 1162-1166 (1997).		
	CF1	Reddy et al., "Unexpected cross-metathesis between Si-C and Si-Si bonds", Chemical Communications, no. 16, pages 1865-1866 (1996).		
	CG1	Uchimaru et al., "Ring-opening polymerization of 1,1,2,2-tetramethyl-1,2-disilacyclopentane via palladium complex-catalysed Si-Si bond metathesis", Chemistry Letters, no. 2, page 164 (1995).		
	CH1	Portnoy et al., "Reactions of electron-rich arylpalladium complexes with olefins. Origin of the chelate effect in vinylation catalysis", Organometallics, vol. 13, no. 9, pages 3465-3479 (1994).		
	CI1	Wurst et al., "Synthesis and structure of the platinum (0) compounds [(dipb)Pt] ₂ (COD) and (dipb) ₃ Pt ₂ and of the cluster Hg ₆ [Pt(dipb)] ₄ (dipb = (iPr) ₂ P(CH ₂) ₄ P(i-Pr) ₂)", Zeitschrift Für Anorganische Und Allgemeine Chemie, vol. 395, pages 239-250 (1991).		
	CJ1	Tanaka et al., "Synthesis of ketones via carbonylation of organic halides. II. Palladium-catalysed carbonylation of organic halides with terminal acetylenes in the presence of amines. Novel acetylenic ketone synthesis", Nippon Kagaku Kaishi, no. 3, pages 537-546 (1985).		
	CK1	Molander et al., "Synthesis and application of chiral cyclopropane-based ligands in palladium-catalyzed allylic alkylation", Journal of Organic Chemistry, vol. 69, no. 23, pages 8062-8069 (2004).		
	CL1	Brauer et al., "Reactions of coordinated ligands. XIV. Synthesis of a tetradentate phosphorus macrocycle in a palladium (II) template", Chemische Berichte, vol. 119, no. 1, pages 349-365 (1986).		

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	CM1	Dias et al., "Synthesis and characterization of .eta.5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies", Journal of Organometallic Chemistry, vol. 475, no. 1-2, pages 241-245 (1994).	
	CN1	PUGH, R. I. <i>et al.</i> "Tandem isomerisation-carbonylation catalysis: highly active palladium(II) catalysts for the selective methoxycarbonylation of internal alkenes to linear esters", Chemical Communications - CHEMCOM, Royal Society of Chemistry, GB, no. 16, (August 21, 2001), pages 1476-1477.	
	CO1	Cullen et al, "Structure of the Hydrogenation Catalyst [(PP)Rh(NBD)]ClO ₄ , (PP) = (5-[(CH ₃) ₃ CC]2PC ₅ H ₄) ₂ Fe, and Some Comparative Rate Studies," Organometallics, vol. 2, pp. 714-719, 1983.	
	CP1	Abbenhuis et al., "Successful Application of a "Forgotten" Phosphine in Asymmetric Catalysis: A 9-Phosphabicyclo[3.3.1]non-9-yl Ferrocene Derivative as a Chiral Ligand," Organometallics, vol. 14, pp. 759-766, 1995.	

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	AC*	US-4,960,926	10-02-1990	Drent	
	AD*	US-5,258,546	11-02-1993	Klusener et al.	
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	AQ*	US-6,706,912	03-16-2004	Drent et al.	
	AR*	US-6,156,934	12-05-2000	Suykerbuyk et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	EP-0495348-A1	07-22-1992	Koenig Wolfgang		
	BB	EP-0495347-A1	07-22-1992	Analisis Sa		
	BC	WO-04/103948	12-02-2004	Shell Internationale		
	BD	DE-10023470-A1	11-15-2001	Basf Ag	US 6,753,450	
	BE	DE-10037961-A1	02-07-2002	Aventis Res & Tech Gmbh & Co	US 7,148,176	
	BF	DE-19745904-A1	04-22-1999	Hoechst Ag	US 6,462,095	

Examiner Signature	/Sikari Witherspoon/	Date Considered	08/30/2009
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/561,912-Conf. #1376
				Filing Date	March 23, 2007
				First Named Inventor	Graham Eastham
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	31229-226445

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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	AU*	US-20060128985	06-15-2006	Eastham et al.	
	AV*	US-20060106259	05-18-2006	Eastham et al.	
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	AZ*	US-7,265,240	09-04-2007	Eastham et al.	
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	AB1*	US-6,284,919	09-04-2001	Pearson et al.	
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	AF1*	US-6,391,818	05-21-2002	Bonsel et al.	
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	AJ1	US-6,462,095	10-08-2002	Bonsel et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BG	DE-19754304-A1	06-10-1999	Hoechst Ag	US6,391,818	
	BH	EP-0375573-A1	06-27-1990	Eastman Kodak Co		
	BI	EP-0879642-A2	11-25-1998	Hoechst Res & Tech Gmbh & Co		
	BJ	GB-2006208-A	05-02-1979	Monsanto Co		
	BK	WO-2005118519-A1	12-15-2005	Lucite Int Uk Ltd et al.		
	BL	WO-01/28972-A1	04-26-2001	Shell Int Research et al.		

Examiner Signature	/Sikarl Witherspoon/	Date Considered	08/30/2009
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Sheet	3	of	3	Attorney Docket Number	31229-226445

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA*	Related U.S. Patent Application No. 10/524,023, filed November 17, 2005, Eastham et al.	
	CB	OLAH, GEORGE A., <i>et al.</i> , "AlCl ₃ -Catalyzed Dichlorophosphorylation of Saturated Hydrocarbons with PCl ₃ in Methylene Chloride Solution," <i>J. Org. Chem.</i> , 1990, 55, 1224-1227.	
	CC	WEI-YONG YU, <i>et al.</i> , "Preparation of Polymer-Protected Pt/Co Bimetallic Colloid and its Catalytic Properties in Selective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol," <i>Polymers FOR Advanced Technologies</i> , GB, John Wiley and Sons, Chichester, August 1, 1996, 719-722, Vol. 7, no. 8.	

Examiner Signature	/Sikal Witherspoon/	Date Considered	08/30/2009
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